

MARKED UP VERSION OF CLAIMS AMENDED IN REWRITTEN FORM

CLAIMS

1. (AMENDED) An imaging device, comprising:
an optical sensor having an output for providing pixel signals generated in response to light projected onto regions of the optical sensor; and
an amplifier having a first input coupled for receiving the pixel signals, a first output for providing an imaging signal, and a control input coupled for receiving control data representing a predetermined region characterization to amplify the pixel signals to different gains when the pixel signals are generated in different regions of the optical sensor.

7. (AMENDED) A method of capturing an image, comprising the step of altering a gain of pixel signals through an amplifier in response predetermined regions characterization control data to compensate for a difference in response to light projected on different regions of an optical sensor.

15. (AMENDED) An image capturing method, comprising the steps of:

sensing light projected on first and second regions of an optical sensor to produce first and second pixel signals;

setting a gain of an amplifier with first control data representing a first predetermined region characterization for amplifying the first pixel signal; and

altering the gain of the amplifier with second control data representing a second predetermined region characterization for amplifying the second pixel signal to equalize the responses of the first and second regions of the optical sensor to the light.

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Please add the following claim:

17. (NEW) An imaging device, comprising:

an optical sensor having an output for providing pixel signals generated in response to light projected onto a plurality of regions of the optical sensor, wherein each of the plurality of regions has a corresponding control data representing a predetermined region characterization, and

an amplifier having a first input coupled for receiving the pixel signals, a first output for providing an imaging signal, and a control input coupled for receiving the corresponding control data to amplify the pixel signals to different gains according to each of their corresponding predetermined region characterizations.